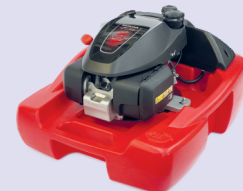
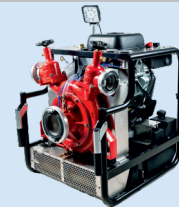




PAVLIŠ A HARTMANN
FIRE-FIGHTING EQUIPMENT PRODUCTION



PRODUCT CATALOGUE

Petrol-driven pumps, booster fans



Mr. Zdeněk Pavliš and **Mr. Jaroslav Hartmann** started their business activities in 1990. The beginning of fire-fighting equipment manufacture followed right after that in 1991. Pavliš a Hartmann, spol. s r.o. was established in 1994.

Our program focuses on the production of high quality fire-fighting equipment such as: fire hydrant systems, fire hoses, portable floating pumps, sewage pumps, PPV fans, portable fire-fighting pumps, nozzles, valves, couplings and many other professional fire-fighting products which meet the appropriate European norms.

However there is also the production of our tool shop where we manufacture tools such as ingot moulds, dies and moulds for injection moulding of rubber, plastic and pressure moulding of aluminium. With our highly experienced team of engineers and designers we are able to offer you a complete range of high quality fire-fighting equipment.

Since 1999 we have also our own production plant in Týniště nad Orlicí where, using the expertise of our team of specialists as well as state-of-the-art technologies, we manufacture fire hoses. These are currently produced mostly on the braiding machines designed and manufactured in our parent company, Pavliš a Hartmann, spol. s r.o. in Chvaletice.

Further dynamic development of the company is guaranteed by our stable team of highly qualified personnel. Our machinery and tools are constantly upgraded in order to satisfy ever growing demands of our business contacts and clients for technical excellence and high quality of our products.

This effort is well documented by the fact that our products have been able to penetrate the exacting foreign markets.



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FIRE FIGHTING PUMP PH-DELTA

This new lightweight (only 70 kg with full tanks) fire fighting pump is equipped with a Briggs & Stratton Vanguard 18 HP V-Twin 4-stroke engine with an integrated 8 litre fuel tank. The engine is covered by 3-year warranty. Due to its low weight and compact design, the PH-DELTA fire fighting pump can be very easily transferred by only two firefighters to the vicinity of fire, even in narrow and uneven terrain. The pump inlet is 2,5" with a strainer and 1x outlet 2,5" equipped with a ball valve. The Delta pump is equipped with an anti-vibration frame and hinged handles.

Benefits of the PH-DELTA petrol-engine driven pump:

- professional, two-cylinder, air-cooled, four-stroke OHV petrol engine with automatic mechanical speed control, powerful pump chamber
- fixed mounted motor-pump assembly in one construction unit
- anti-vibration mounting of the unit
- robust, ergonomically designed steel frame
- manual start (recoil starter)
- conventional fuel
- allows long-term full load
- speed control
- exhaust priming system
- pressure gauge at the outlet from the chamber
- ball valve at discharge
- ceramic mechanical seal
- service support
- bronze impeller

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

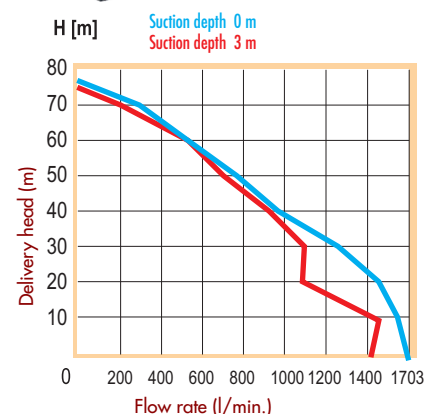
PH-DELTA

• Max. flow	1 703 l/min
• Flow at 0,5 MPa	774 l/min
• Flow at 0,6 MPa	577 l/min
• Total head	76,5 m
• Max. suction depth	8 m
• Suction connection	Storz B75 (2,5")
• Discharge connection	Storz B75 (2,5")
• Engine	Briggs & Stratton
• Engine power	13,4 kW / 18 HP
• Integrated fuel tank capacity	8 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions (L x W x H)	600 x 570 x 595 mm
• Dry weight (empty)	62,2 kg
• Weight (with full tanks)	70 kg

FIRE FIGHTING PUMP PH-DELTA

Cat. No.: **vv 425**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2



FIRE FIGHTING PUMP PH-ALFA BS 23HP

PH-ALFA BS, fire fighting pump is equipped with a Briggs & Stratton Vanguard 23 HP V-Twin 4-stroke engine with an integrated 8 litre fuel tank. The engine is covered by 3-year warranty. The pump features a very low weight (only 88 kg, including the battery and full tanks) and a compact design. Due to its weight and size, it can be very easily transferred by only two firefighters to the vicinity of fire, even in narrow and uneven terrain. The pump inlet is 4" with a strainer and 1x outlet 2,5" equipped with a ball valve. The pump is equipped with an anti-vibration frame and hinged handles. The pump can be started using both, electric and manual (recoil) starter.

Benefits of the PH-ALFA BS 23HP petrol-engine driven pump:

- professional two-cylinder air-cooled four-stroke OHV petrol engine with automatic mechanical speed control
- high-performance pump chamber
- fixed engine-pump assembly as one construction block
- anti vibration support of the aggregate
- robust, ergonomically designed tubular frame
- electric and manual (recoil) starter
- conventional fuel
- allows long-term full load
- speed control
- exhaust priming system
- pressure gauge at the outlet from the chamber
- ball valve at discharge
- ceramic mechanical seal
- equipped with lighting
- operating hour counter
- bronze impeller
- vacuum gauge
- stainless steel exhaust

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

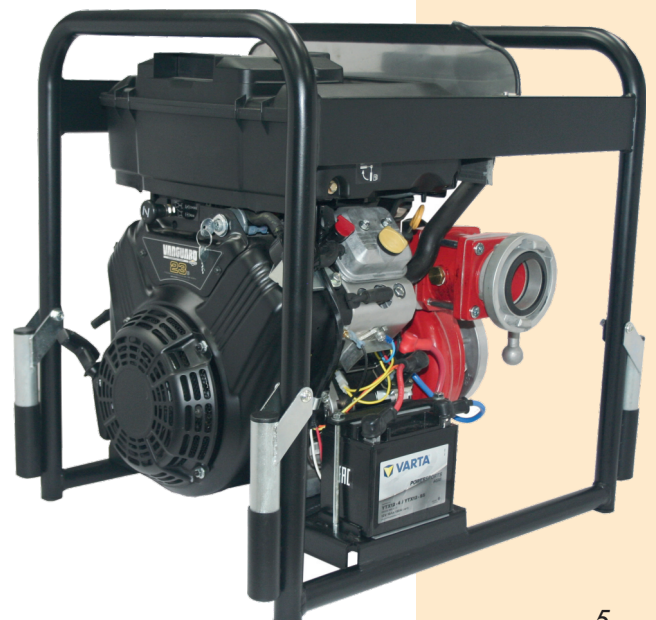
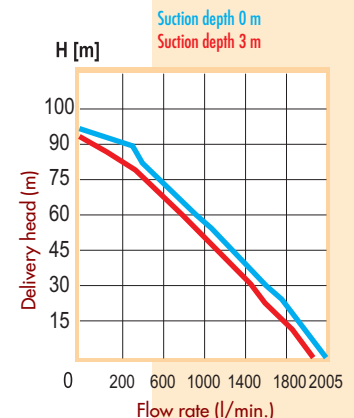
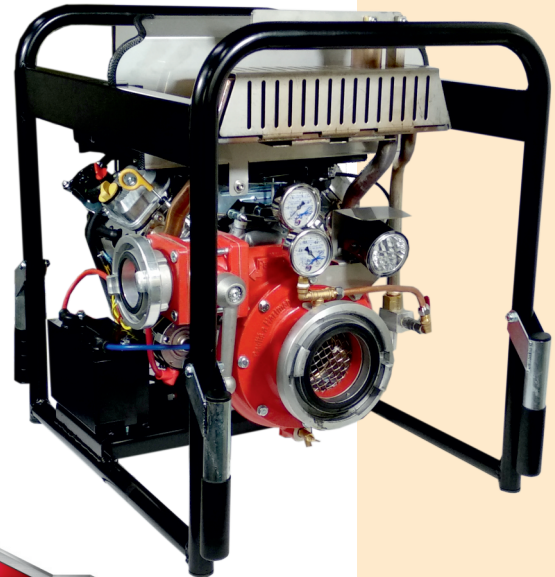
PH-ALFA BS 23HP

• Max. flow	2005 l/min
• Flow at 0,5 MPa	1072 l/min
• Flow at 0,6 MPa	864 l/min
• Total head	92 m
• Max. suction depth	8 m
• Suction connection	Storz A110 (4")
• Discharge connection	Storz B75 (2,5")
• Engine	Briggs & Stratton 23HP
• Engine power	17,2 kW / 23 HP / 3600 ot/min
• Integrated fuel tank capacity	8 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions (L x W x H)	700x560x670mm
• Dry weight (empty) without bat.	76,2 kg
• Weight (with full tanks)	88 kg

FIRE FIGHTING PUMP PH-ALFA BS 23HP

Cat. No.: **vv 426**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2



FIRE FIGHTING PUMP PH-ALFA 2 BS 23HP

PH-ALFABS, fire fighting pump is equipped with a Briggs & Stratton Vanguard 23 HP V-Twin 4-stroke engine with an integrated 8 litre fuel tank. The engine is covered by 3-year warranty. The pump features a very low weight (only 92,5 kg, including the battery and full tanks) and a compact design. Due to its weight and size, it can be very easily transferred by only two firefighters to the vicinity of fire, even in narrow and uneven terrain. The pump inlet is 4" with a strainer and 2x outlet 2,5" equipped with a ball valve. The pump is equipped with an anti-vibration frame and hinged handles. The pump can be started using both, electric and manual (recoil) starter.

Benefits of the PH-ALFA 2 BS 23HP petrol-engine driven pump:

- professional, two-cylinder, air-cooled, four-stroke OHV petrol engine with automatic mechanical speed control
- powerful pump chamber
- fixed mounted motor-pump assembly in one construction unit
- anti-vibration mounting of the unit
- robust, ergonomically designed tubular frame
- electric and manual (recoil) starter
- conventional fuel
- allows long-term full load
- speed control
- gas vacuum pump
- pressure gauge at the outlet of the chamber
- ball valve at discharge port
- ceramic mechanical seal
- equipped with lighting
- bronze impeller
- service support
- operating hour counter

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

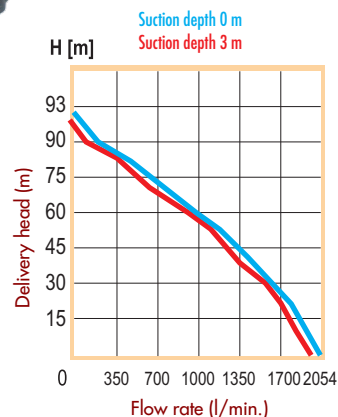
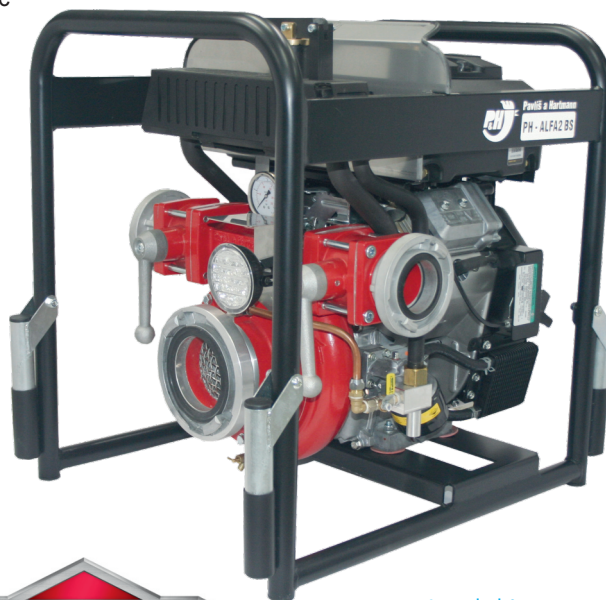
FIRE FIGHTING PUMP PH-ALFA 2 BS 23HP

• Max. flow	2054 l/min
• Flow at 0,5 MPa	1109 l/min
• Flow at 0,6 MPa	908 l/min
• Total head	92 m
• Max. suction depth	8 m
• Suction connection	Storz A110 (4")
• Discharge connection	2x Storz B75 (2,5")
• Engine	Briggs & Stratton 23HP
• Engine power	17,2 kW / 23 HP / 3600 ot/min
• Integrated fuel tank capacity	8 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions (L x W x H)	700 x 560 x 670 mm
• Dry weight without bat. (empty)	80,6 kg
• Weight (with full tanks)	92,5 kg

FIRE FIGHTING PUMP PH-ALFA 2 BS 23HP

Cat. No.: **vv 427**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2



FIRE PUMP PH – BETA PFPN 10-1000

Has been developed in close collaboration with our research and development department, leading Czech technical universities, and industry specialists.

This innovative approach ensures that the pump is the ideal choice for both professional and volunteer firefighters looking for reliable and effective equipment for their operations. Additionally, the pump is certified by the European accredited testing laboratory TÜPO, ensuring its compliance with high safety and performance standards.

Key Features

- **Automatic Vacuum Pump:** Advanced technology allows for both automatic and manual control for maximum flexibility. The pump can suck water from a depth of 8m in less than 30 seconds.
- **Large Built-in Tank:** Provides continuous operation at full capacity for approximately 72 minutes, making it ideal for prolonged interventions.
- **Compact Design and Low Weight:** Designed for easy handling and transportation, allowing for quick and efficient deployment in various situations.
- **Telescope LED Light:** Ensures optimal lighting during night operations or in poorly lit conditions.
- **Engine:** Briggs & Stratton 40HP (30,2 kW) EFI - with electronic fuel injection. Professional engine with three-year warranty and available worldwide service.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

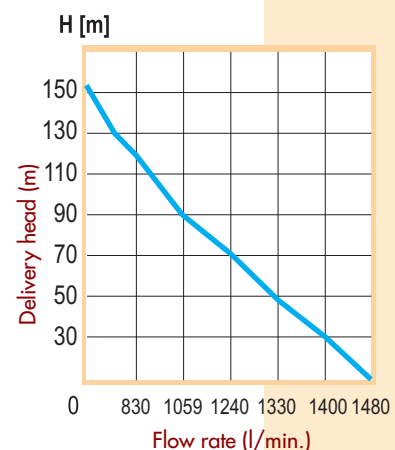
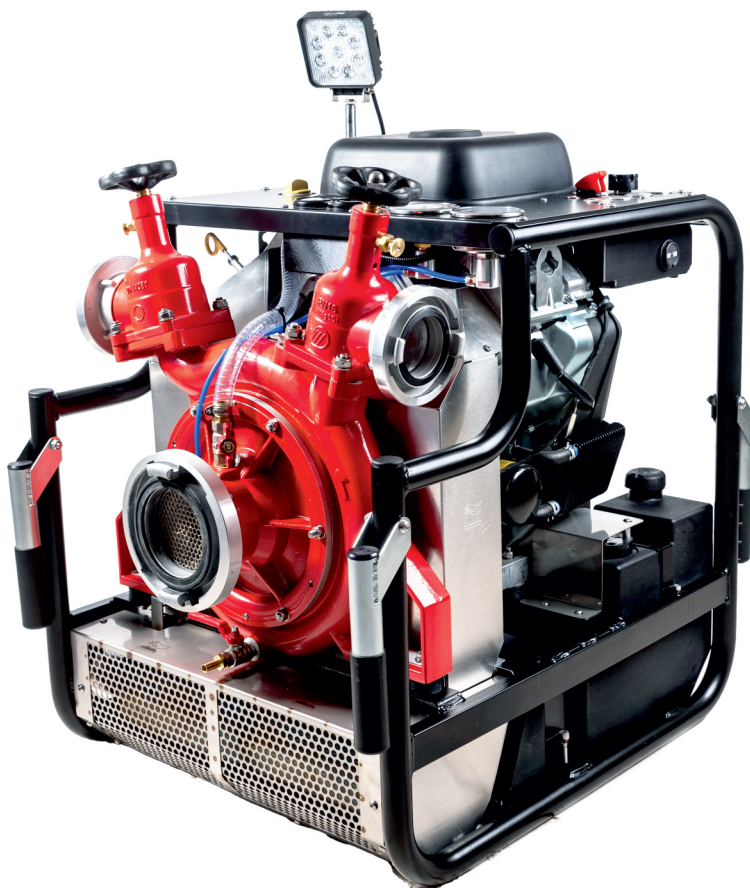
Technical Specifications

FIRE PUMP PH – BETA 10-1000

• Max. flow	1480 l/min
• Flow at suction depth of 3 m	1291 l/min at 6 BAR
• Flow at suction depth of 3 m	1020 l/min at 10 BAR
• Total head	150 m
• Max. suction depth	8 m
• Suction connection	Storz A110 (4")
• Discharge connection	2x Storz B75 (2,5")
• Integrated fuel tank capacity	17 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions (L x W x H)	782 x 615 x 775 mm
• Dry weight without bat. (empty)	132,7 kg
• Weight (with full tanks)	144,5 kg

Cat. No.: **vv 520**

The data was measured by the accredited testing laboratory TÜPO No. 1011-2



FORESTGUARD 6

ForestGuard 6 – Lightweight, Powerful and Reliable in Wildfire Fighting

The ForestGuard 6 is a compact and high-performance portable pump specifically designed for wildfire suppression and operations in challenging terrain where heavy equipment cannot be used. Powered by the professional-grade **Honda GXH 50 engine**, it delivers outstanding reliability and an excellent power-to-weight ratio. With a weight of only **9.5 kg (without couplings)**, it allows firefighters to move quickly and efficiently without unnecessary physical strain.

The robust design with a **hard-anodized aluminum body** ensures high resistance to wear and harsh operating conditions. A maximum flow rate of **329 l/min** and a maximum head of **60 m** make the ForestGuard 6 a reliable partner for operations in hard-to-reach environments.

The new version introduces design improvements for even safer and more comfortable use in the field:

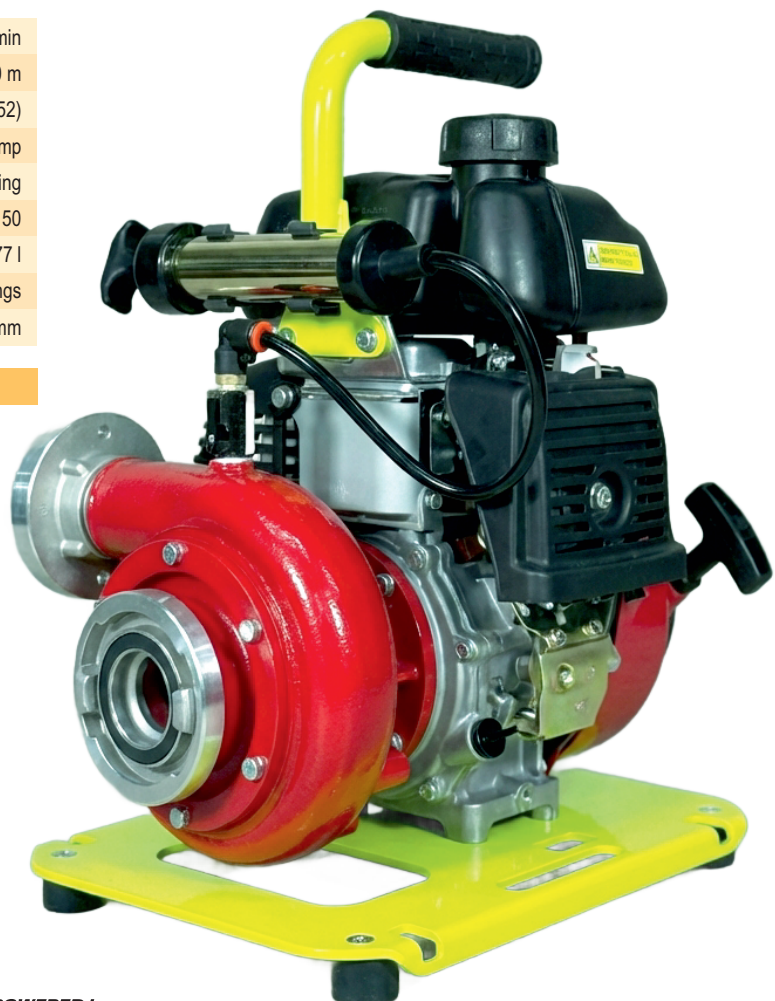
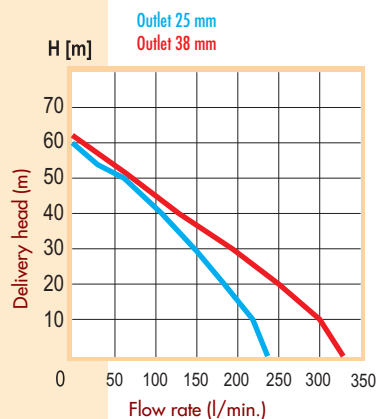
- New **neon yellow platform** for significantly improved visibility in terrain, smoke, and low-light conditions
- Increased **platform stability** for safe operation even on uneven or soft ground
- **Integrated anchoring points** in the platform for secure fixation using ground stakes, straps, belts, or ratchet tie-downs during operation and transport
- **Reinforced handle construction** for greater durability and long service life
- **Optimized grip ergonomics** for better control and comfort when operating the recoil starter

Forest Guard 6

• Max. flow rate	330 l/min
• Max. Head Lift	60 m
• Suction / Discharge	BSP Male 1.5" (Storz C52)
• Pump Priming	Manual pump
• Pump Type	Centrifugal, aluminium casting with hard anodizing
• Engine	Honda GXH 50
• Fuel Tank Capacity	0.77 l
• Dry Weight	9.5 kg (without couplings)
• Device dimensions (L x W x H)	340 x 280 x 430 mm

Cat. No.: **vv 521**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2



POWERED by
HONDA



Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

FORESTGUARD 12

COMPACT HIGH-PRESSURE PUMP FOR WILDLAND FIREFIGHTING

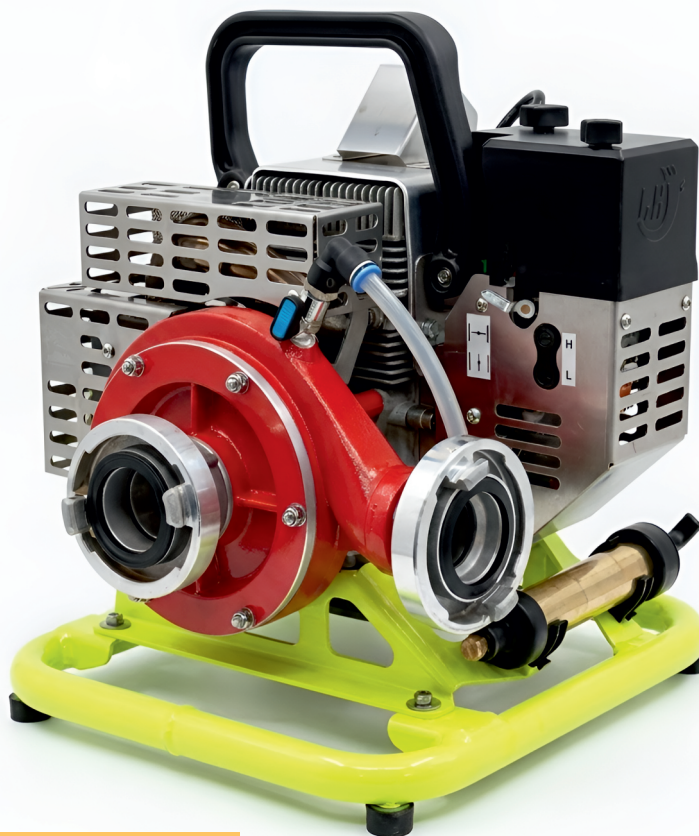
ForestGuard 12 is a compact and powerful portable high-pressure pump specially designed for wildland firefighting and operations in difficult terrain where heavy equipment cannot be deployed. Powered by a professional high-speed 124 cc two-stroke engine rated at 6.1 kW/8 HP, it delivers excellent reliability, high pressure performance, and an outstanding power-to-weight ratio. With a total weight of just 16 kg (without fuel tank), it allows firefighters to move quickly and deploy the pump efficiently in the field.

KEY FEATURES

Its robust design ensures high resistance to wear and harsh operating conditions. With a maximum flow rate of 367 l/min and a maximum head of 120 m, the ForestGuard 12 is a reliable partner for firefighting operations in hard-to-reach terrain.

For fast operational readiness, a jump-start power bank is included as standard, enabling electric starting of the pump and, when needed, emergency charging of other devices such as a mobile phone or a radio. In addition, the frame is finished in bright fluorescent RAL 1026 to improve the pump's visibility in forests, dense vegetation, and demanding operating conditions.

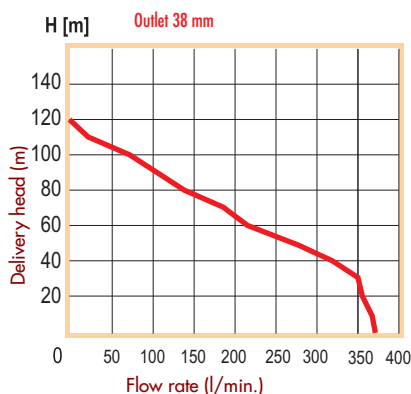
The pump is equipped with a manually operated priming pump for water priming, a portable external 12-litre plastic fuel tank, and both manual recoil start and electric start using an external power bank. ForestGuard 12 delivers exactly what firefighting crews need most in the field: mobility, easy operation, and dependable performance.



Forest Guard 6

● Max. flow rate	367 l/min
● Max. Head Lift	120 m
● Suction / Discharge	BSP Male 1.5" (Storz C52)
● Pump Priming	Manual pump
● Pump Type	centrifugal, aluminium casting
● Engine	124 cc two-stroke petrol engine / 6.1 kW / 8 HP
● External Fuel Tank Capacity	12 l
● Total Weight	16 kg/without fuel tank and power bank
● Device dimensions (L x W x H)	375 x 355 x 410 mm

Cat. No.: **vv 519**



Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

FORESTPACK - BACKPACK CARRYING SYSTEM

Mobility for wildland firefighting.

ForestPack is a professional backpack carrying system designed for transporting pumps, hoses and accessories in difficult-to-access terrain. Its durable aluminium alloy frame and ergonomic carrying system provide stability, comfort and reliable performance during long-distance transport.

The modular strap system allows quick and secure attachment of **ForestGuard 6 / 12**, **ForestLine Bag**, fire hoses and other firefighting accessories.

Key features

- Durable aluminium alloy construction
- Ergonomic backpack system with Tebox padded shoulder straps
- Adjustable quick-release fixing straps
- High-visibility fluorescent finish, RAL 1026
- Modular attachment for pumps, hoses and accessories
- Suitable for wildland firefighting and difficult terrain

Technical parameters

- | | |
|------------------|-------------------------------------|
| • Weight: | 3.5 kg |
| • Load capacity: | 30 kg |
| • Dimensions: | 380 × 380 × 620 mm |
| • Construction: | 4 mm aluminium alloy, powder coated |
| • Straps: | polyester with Tebox padding |

Cat. No.: **vv 090**



FORESTLINE BAG - HOSE BAG FOR RAPID DEPLOYMENT

Fast hose deployment in the field.

ForestLine Bag is a professional hose bag designed for rapid hose line deployment during wildland firefighting and operations in difficult terrain. It enables smooth hose deployment by a single operator while moving, helping firefighters save time and increase operational efficiency.

The bag can be quickly and securely attached to the **ForestPack carrying system**, creating a compact and mobile solution for long-distance water transport.

Key features

- Rapid hose deployment by one operator
- Easy-access Velcro opening for hose unwinding
- Optimized for hose line deployment in terrain
- Resistant to water, dirt and mechanical stress
- Secure attachment to the ForestPack system
- Lightweight and durable construction
- Suitable for wildland firefighting and difficult terrain

Technical parameters

- | | |
|---------------|----------------------------|
| • Weight: | 0.77 kg |
| • Capacity: | up to 65 l |
| • Dimensions: | approx. 290 × 380 × 610 mm |
| • Material: | modified PVC / Plastel |
| • Straps: | polyester |

Cat. No.: **bag 006**



ForestPack carrying system is not included with the hose bag.

SEWAGE PUMP PH-1000

The PH-1000 is a sewage pump especially designed for fire brigades to fill up fire engine tanks with water from outdoor natural water sources, to pump out water from flooded areas and rooms. This portable sewage pumps can also be used for other applications, e.g. agriculture, building sites, etc.

The Complete version of the PH-1000 sewage pump is fitted with a folding handle and transport rollers for better handling of the sewage pump. **The Basic version** of the PH-1000 sewage pump is not equipped with this feature so the pump can only be handled using its steel frame.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

MAIN SPECIFICATIONS PH-1000

• Max. flow	1060 l/min
• Total head	25 m
• Max. suction depth	8 m
• Suction connection	Storz B75 (2½")
• Discharge connection	Storz B75 (2½")
• Engine	Honda GX 200
• Engine power	4.1 kW/5,5 HP
• Fuel tank capacity	3.1 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions (L x W x H)	600x490x535 mm

Cat. No.: PH-1000 complete version **vv 282**

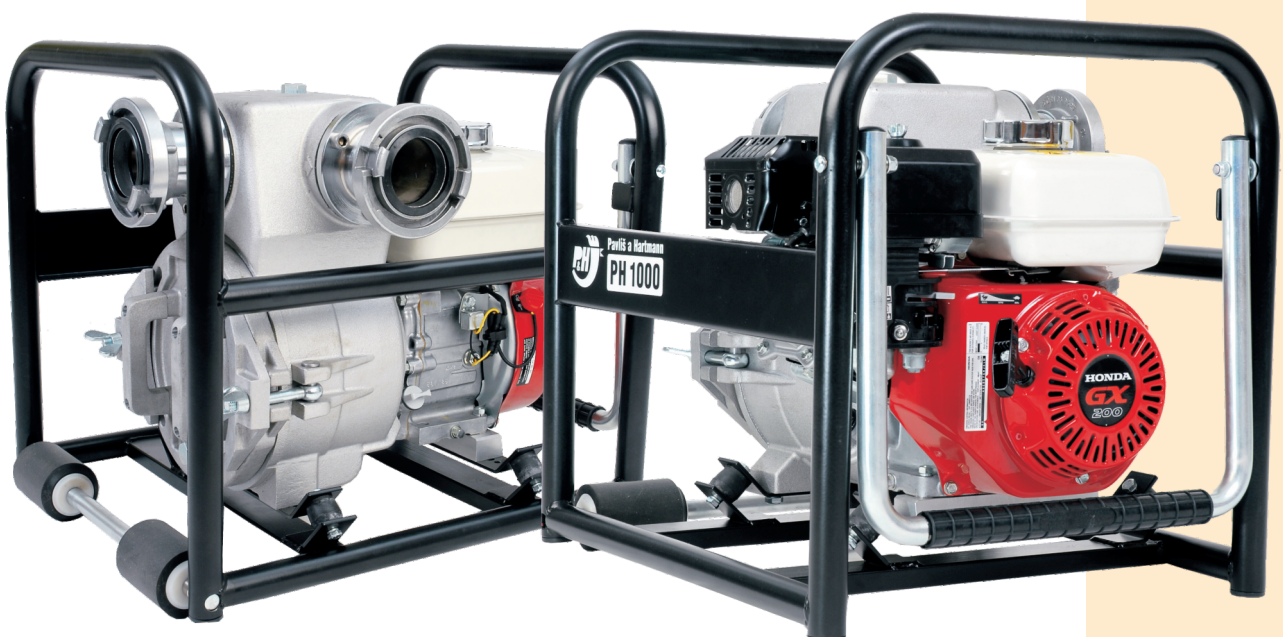
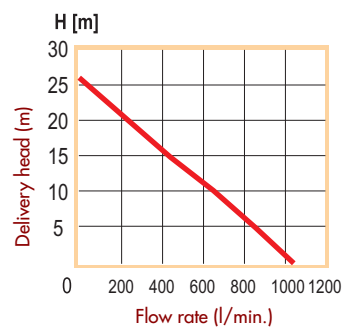
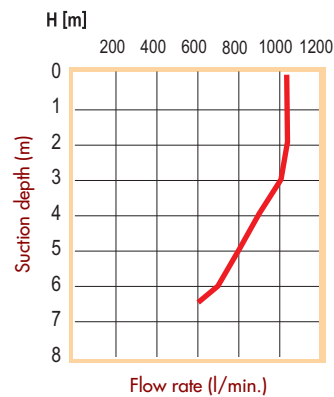
Device dimensions (LxWxH) 600x490x535 mm

Dry weight 58 kg

Cat. No.: PH-1000 basic version **vv 283**

Device dimensions (LxWxH) 600x490x535 mm

Dry weight 56 kg



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SEWAGE PUMP PH-1200

The PH-1200 is a sewage pump especially designed for fire brigades to fill up fire engine tanks with water from outdoor natural water sources, to pump out water from flooded areas and rooms. This portable sewage pumps can also be used for other applications, e.g. agriculture, building sites, etc.

The Complete version of the PH-1200 sewage pump is fitted with a folding handle and transport rollers for better handling of the sewage pump. **The Basic** version of the PH-1200 sewage pump is not equipped with this feature so the pump can only be handled using its steel frame.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

MAIN SPECIFICATIONS PH-1200

• Max. flow	1210 l/min
• Total head	26 m
• Max. suction depth	8 m
• Suction connection	Coupling B75 (2½")
• Discharge connection	Coupling B75 (2½")
• Engine	Honda GX 270
• Engine power	6.3 kW/8.4 HP
• Fuel tank capacity	5.3 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions (L x W x H)	690x540x535 mm

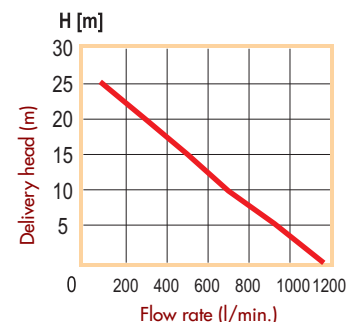
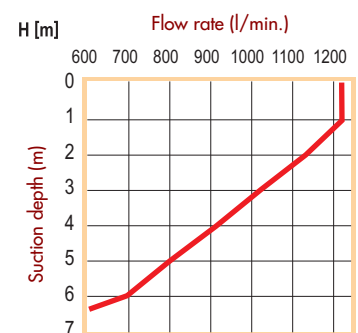
The data was measured by the accredited testing laboratory TÜPO No. 1011-2

Cat. No.: PH-1200 complete version **vv 285**

Device dimensions (LxWxH) 690x540x535 mm
Dry weight 69 kg

Cat. No.: PH-1200 basic version **vv 286**

Device dimensions (LxWxH) 670x540x535 mm
Dry weight 67 kg



SEWAGE PUMP PH-2400

The portable PH-2400 sewage pump is especially designed for fire brigades to fill up fire engine tanks with water from outdoor natural water sources, to pump out water from flooded areas and rooms. This high-quality portable sewage pump can also be used for other applications, e.g. agriculture, building sites, etc.

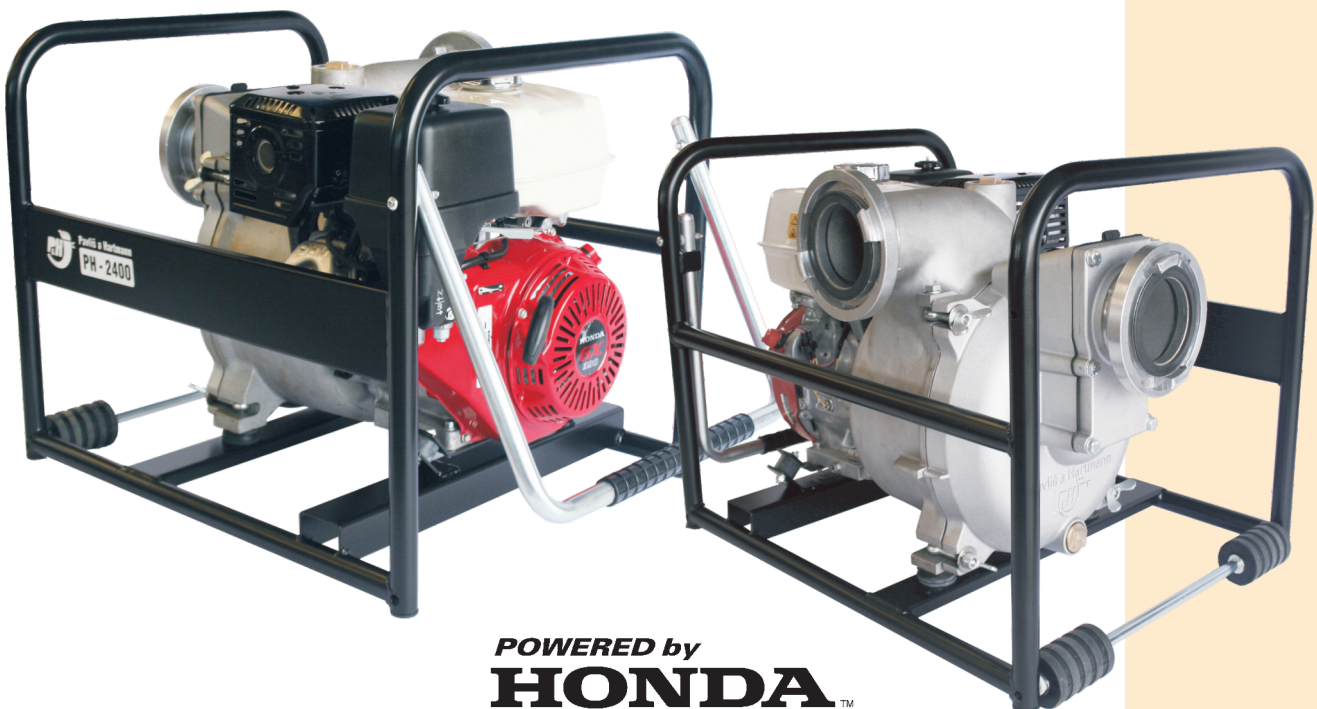
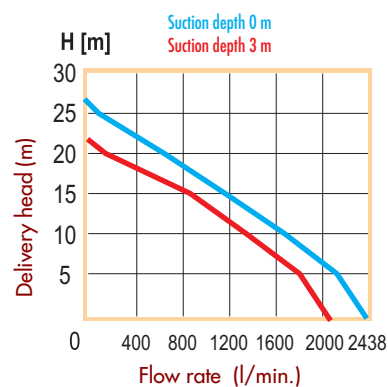
Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

MAIN SPECIFICATIONS PH-2400

● Max. flow	2438 l/min
● Total head	27 m
● Max. suction depth	8 m
● Suction connection	Storz A110 (4")
● Discharge connection	Storz A110 (4")
● Engine	Honda GX 390
● Engine power	8.7 kW/11.7 HP
● Fuel tank capacity	6.1 l
● Fuel	unleaded petrol (BA 95)
● Device dimensions (L x W x H)	800x630x610 mm
● Dry weight (empty)	89,5 kg

Cat. No.: SEWAGE PUMP PH-2400 **vv 482**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2



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SEWAGE PUMP PH-PROGRESS 1000

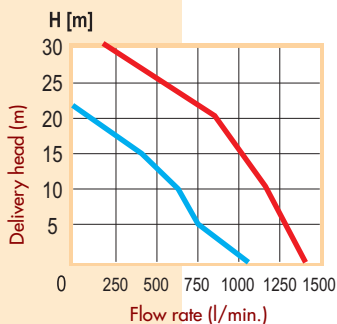
The portable sewage pump PH-PROGRESS 1000 is designed for fire brigades to fill up fire engine tanks with water from natural water sources or to pump out water from flooded areas and rooms. The pump can also be used for other applications such as agriculture, building sites, etc.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

PH-PROGRESS 1000

• Max. flow	1000 l/min
• Total head	22 m
• Max. suction depth	8 m
• Suction connection	Coupling B75
• Discharge connection	Coupling B75
• Engine	4-stroke OHV
• Engine power	4,1 kW/5,5 HP
• Fuel tank capacity	3 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions (L x W x H)	505x380x440 mm
• Dry weight (empty)	27 kg

Cat. No.: **vv 480**



PH PROGRESS 1000
PH PROGRESS 1400



PORTABLE FLOATING PUMP PH-CYKLON 1 BS

Configuration: engine Briggs & Stratton PXi 850
Pump type centrifugal – aluminium casing
Float polyethylene block with handles
Runner aluminium/bronze on request

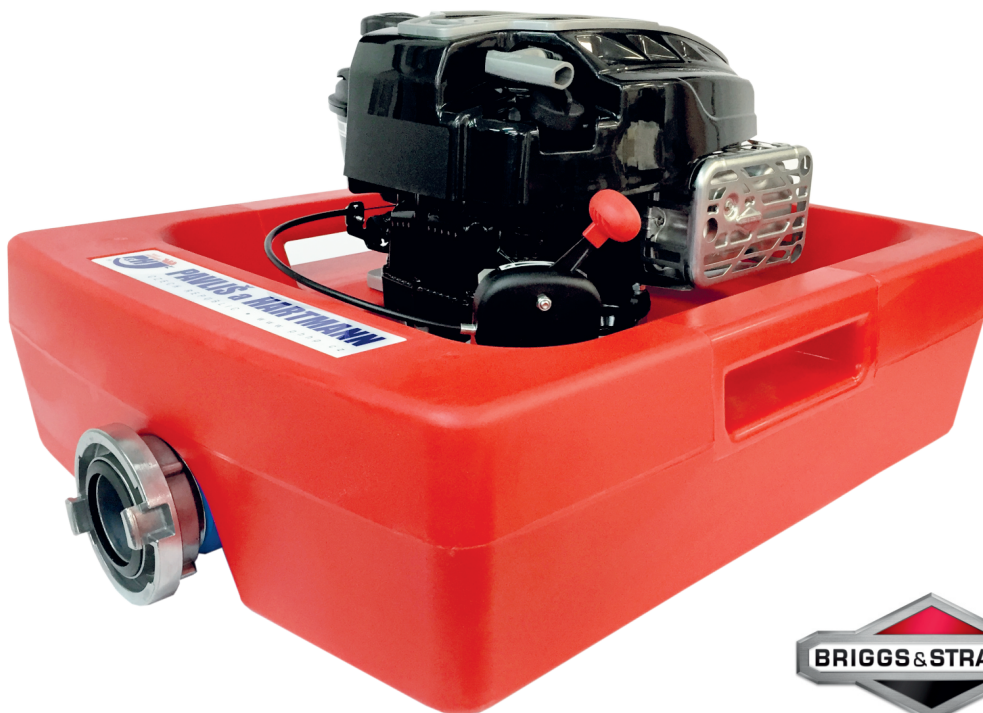
APPLICATION

The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc.

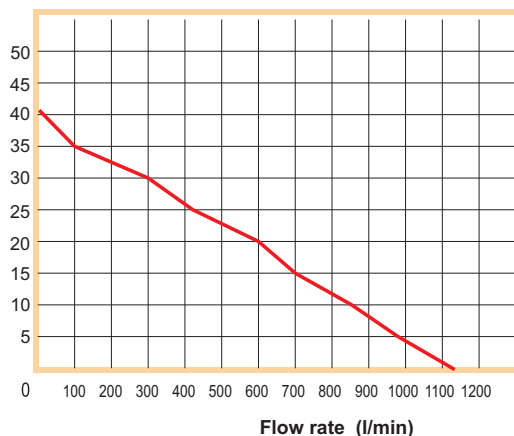
The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a stainless grid to prevent access of dirt and debris exceeding 10 mm in diameter. The delivery outlet of the PH-CYKLON 1 BS is fitted with a Storz B75 (2,5") hose coupling.

The new float body is made of polyethylene by centrifugal injection as one block. The floater with its new design is equipped with a removable tank. The tank is connected with a fuel hose to the original fuel system. This modification extends the pumps run time for several hours without refilling. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



H [m]



PH - CYKLON 1 BS

• Max. flow	1058 l/min
• Total head	41 m
• Discharge connection	Storz B75 (2,5")
• Engine	Briggs a Stratton PXi 850
• Engine Power	4,4 kW/ 5,9 HP
• Fuel tank capacity	1,1 l
• Fuel	unleaded petrol (BA 95)
• Float dimensions	710x610x375 mm
• Device dimensions	710x610x400 mm
• Dry weight (empty)	24 kg

Cat. No.: **vv 280-BS**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2

PORTABLE FLOATING PUMP PH-CYKLON 2/1500

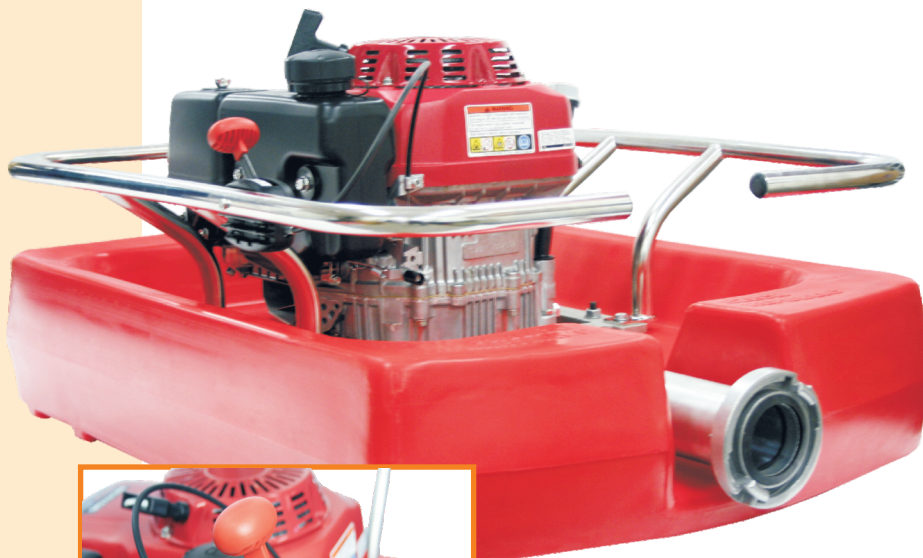
Complete device:	Engine:	HONDAGXV 390	Supporting plate:	Al Mg5Si1Mn
	Pump Casing:	Centrifugal type-Al casting	Runner:	Al Mg5Si1Mn
	Float:	Polyethylene/polyurethane	Suction cover:	Al Mg5Si1Mn

Application: The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc.

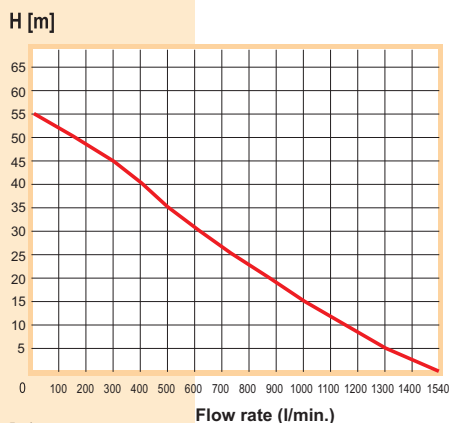
The pump and the engine are in one unit, so the pump cannot be used independently. The engine shaft goes through the pump block without a sealing. The pump block is bolted to the engine through the supporting plate. The bottom side of the block is fitted with a cover to prevent debris and particles over 20 mm in diameter. The delivery outlet is fitted with a Storz B75 (2,5") hose coupling.

The float body is made of polyethylene by centrifugal injection as one block. The internal wall has about 20 mm of lightweight polyurethane foam in order to increase resistance to breakthrough which guarantees unsinkability of the device. This design of the float features outstanding stability on the water surface. The frame is used both for carrying and handling the unit and also for fixing a rope to secure it in its position. The design of the pump allows dry-running without damage.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



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PH CYKLON 2/1500

• Max. flow	1540 l/min
• Total head	55 m
• Discharge connection	Storz B75 (2,5")
• Engine	Honda GXV 390
• Engine Power	7.6 kW/10,2 HP / 13 HP /SAEJ 1995)
• Fuel tank capacity	2.1 l
• Fuel	unleaded petrol (BA 95)
• Float dimensions	980x710x200 mm
• Device dimensions	1030x730x500 mm
• Dry weight (empty)	53 kg

Cat. No.: **vv 228**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2

PORTABLE FLOATING PUMP PH-MAMMOTH-2400

Complete device:	Engine:	HONDA GXV 390	Supporting plate:	Al Mg5Si1Mn
	Pump Casing:	Centrifugal type-Al casting	Runner:	Al Mg5Si1Mn
	Float:	Polyethylene/polyurethane	Suction cover:	Al Mg5Si1Mn

APPLICATION:

The device is designed to deliver high amounts of water, draining lagoons resulting from flooding or to replenish fire engine tanks with water from outdoor natural water sources. It can also be used in other applications, such as agriculture, building sites, etc.

The pump and the engine are in one unit, so the pump cannot be used independently. The engine shaft goes through the pump block without a sealing. The pump block is bolted to the engine through the supporting plate. The bottom side of the block is fitted with a cover to prevent debris and particles over 20 mm in diameter. The delivery outlet is fitted with a Storz A110 (4") hose coupling.

The float body is made of polyethylene by centrifugal injection as one block. The internal wall has about 20 mm of hard polyurethane foam in order to increase resistance to breakthrough which guarantees unsinkability of the device. This design of the float features outstanding stability on the water surface. The frame is used both for carrying and handling the unit and also for fixing a rope to secure it in its position. The design of the pump allows dry-running without damage.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



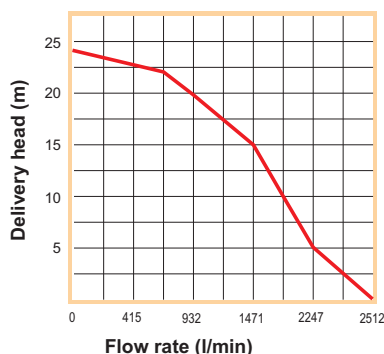
PH-MAMMOTH-2400

● Max. flow	2510 l/min
● Total head	24 m
● Discharge connection	Storz A110 (4")
● Engine	Honda GXV 390
● Engine Power	7.6 kW/10,2 HP / 13 HP / SAEJ 1995)
● Fuel tank capacity	2.1 l
● Fuel	unleaded petrol (BA 95)
● Float dimensions	980x710x200 mm
● Device dimensions	1080x730x500 mm
● Dry weight (empty)	55,9 kg

Cat. No.: **vv 287**

The data was measured by the accredited testing laboratory TÜPO No. 1011-2

POWERED by
HONDA



PORTABLE FLOATING PUMP PH-POSEIDON 1

Configuration: engine Honda GCVx 200
 Pump type centrifugal – aluminium casing
 Float polyethylene block with handles
 Runner aluminium casting

APPLICATION

The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc.

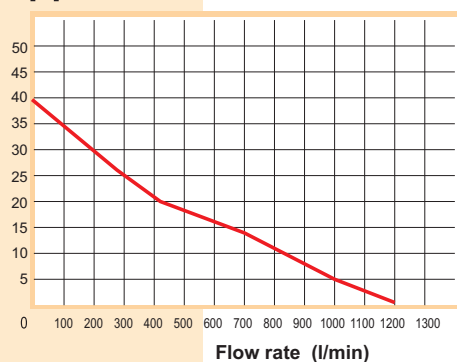
The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a steel grid to prevent access of dirt and debris exceeding 10 mm in diameter. The delivery outlet of the PH-POSEIDON 1 is fitted with a Storz B75 (2½") hose coupling. The float body is made of polyethylene by centrifugal injection as one block. The floater with its new design is equipped with a removable tank. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away. The design of the pump allows „dry“ run without damage.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



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H [m]



Flow rate (l/min)

The data was measured by the accredited testing laboratory TÜPO No. 1011-2

PH - POSEIDON 1

• Max. flow	1190 l/min
• Total head	40 m
• Discharge connection	Storz B75 (2,5")
• Engine	Honda GCVx 200
• Engine Power	4,2 kW/ 5,6 HP
• Fuel tank capacity	0,9 l
• Capacity additional fuel tank	3,8 l
• Fuel	unleaded petrol (BA 95)
• Float dimensions	710x610x375 mm
• Device dimensions	710x610x400 mm
• Dry weight (empty)	23,8 kg

Cat. No.: **vv 443**

PORTABLE FLOATING PUMP PH-POSEIDON 1 BS

Configuration: engine Briggs & Stratton PXi 850
 Pump type centrifugal – aluminium casing
 Float polyethylene block with handles
 Runner aluminium/bronze on request

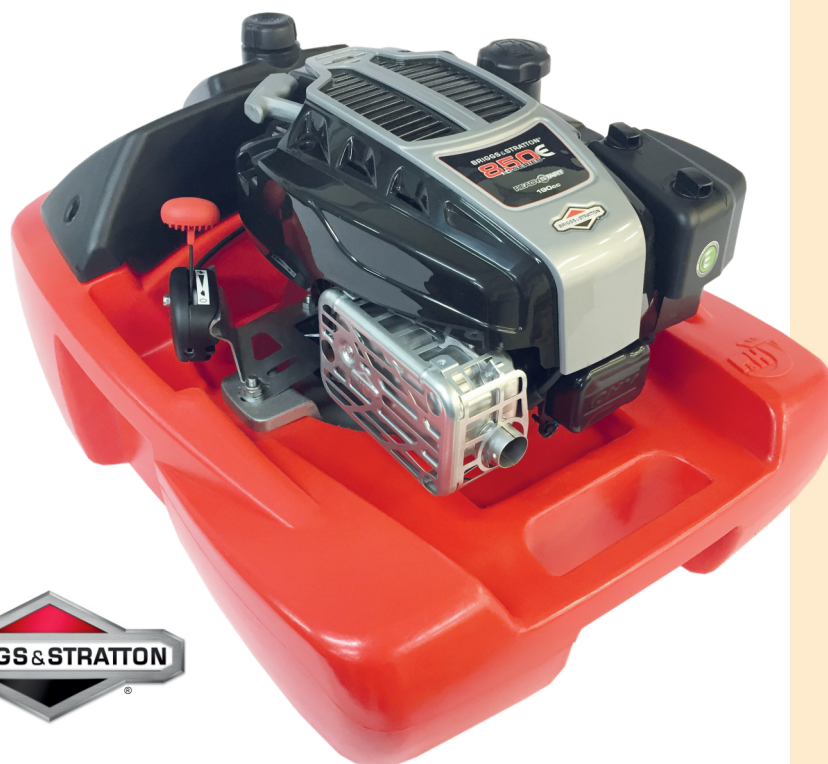
APPLICATION

The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc.

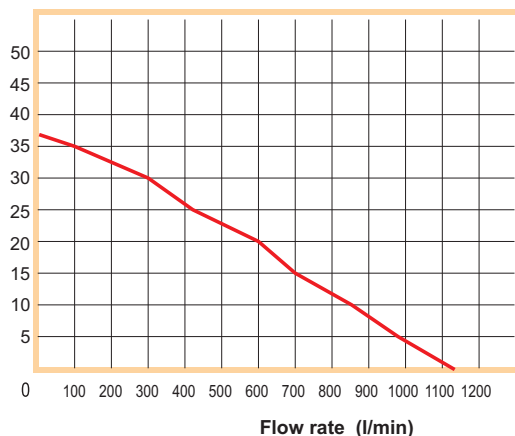
The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a stainless grid to prevent access of dirt and debris exceeding 10 mm in diameter. The delivery outlet of the PH-POSEIDON 1 BS is fitted with a Storz B75 (2,5") hose coupling.

The new float body is made of polyethylene by centrifugal injection as one block. The floater with its new design is equipped with a removable tank. The tank is connected with a fuel hose to the original fuel system. This modification extends the pumps run time for several hours without refilling. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



H [m]



The data was measured by the accredited testing laboratory TÚPO No. 1011-2

PH - POSEIDON 1 BS

• Max. flow	1058 l/min
• Total head	41 m
• Discharge connection	Storz B75 (2,5")
• Engine	Briggs a Stratton PXi 850
• Engine Power	4,4 kW/ 5,9 HP
• Fuel tank capacity	1,1 l
• Capacity additional fuel tank	3,8 l
• Fuel	unleaded petrol (BA 95)
• Float dimensions	710x610x375 mm
• Device dimensions	710x610x400 mm
• Dry weight (empty)	24,8 kg

Cat. No.: **vv 433**

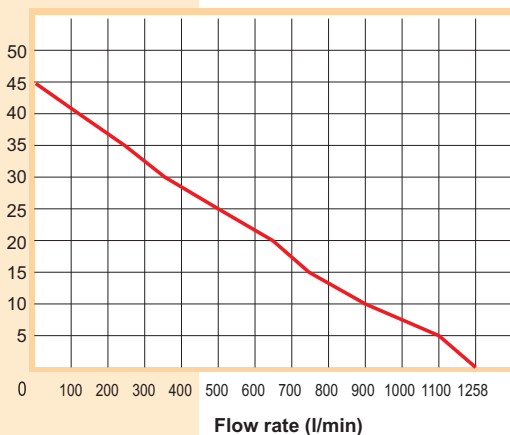
PORTABLE FLOATING PUMP PH-POSEIDON 1 BS SUPRA

The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc. The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a steel grid to prevent access of dirt and debris exceeding 10 mm in diameter. The delivery outlet of the PH-Poseidon 1 BS Supra is fitted with a B-75 storz hose coupling. The float body is made of polyethylene by centrifugal injection as one block. The floater with its new design is equipped with a removable tank. The tank is connected with a fuel hose to the original fuel system. This modification extends the pumps run time for several hours without refilling. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away. The design of the pump allows dry-running without damage.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



H [m]



The data was measured by the accredited testing laboratory TÚPO No. 1011-2

PH-POSEIDON 1 BS Supra

- Max. flow 1180 l/min
- Total head 43 m
- Discharge connection Storz B75 (2,5")
- Engine Briggs & Stratton PXi 1000
- Engine Power 5.3 kW/7.2 HP
- Fuel tank capacity 3.8 l
- Fuel unleaded petrol (BA 95)
- Device dimensions 710x610x380 mm
- Dry weight (empty) 25,8 kg

Cat. No.: **vv 450**

PORTABLE FLOATING PUMP PH-POSEIDON 1 BS SUPRA (ES)

The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc. The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a stainless grid to prevent access of dirt and debris exceeding 10 mm in diameter. The delivery outlet of the PH-Poseidon 1 BS Supra is fitted with a B-75 hose coupling. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away. The engine has two options for starting: manual or electric start. The power bank with the JUMP STARTER function with a total capacity of 10,000mAh will make it much easier to start the pump motor. The charging source can also be used as a backup to charge phones, laptops and other electronic devices. The design of the pump allows dry-running without damage.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!

Accessories:

Power bank with JUMP STARTER function with a total capacity of 10,000 mAh

Connection cable for electrical start

Charging source

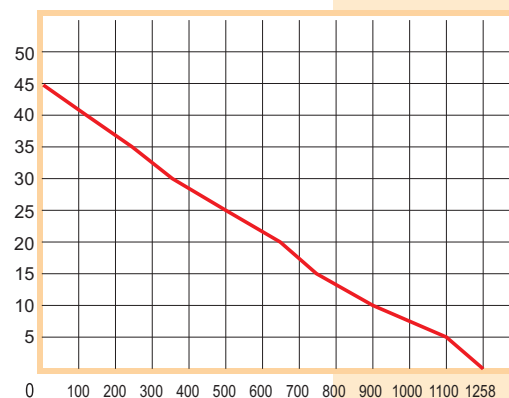


PH-POSEIDON 1 BS Supra

• Max. flow	1180 l/min
• Total head	43 m
• Discharge connection	Storz B75 (2,5")
• Engine	Briggs & Stratton PXi 1000
• Engine Power	5.3 kW/7.2 HP
• Fuel tank capacity	3.8 l
• Fuel	unleaded petrol (BA 95)
• Device dimensions	710x610x380 mm
• Dry weight (empty)	26,5 kg

Cat. No.: **vv 450/ES**

H [m]



The data was measured by the accredited testing laboratory TÚPO No. 1011-2

PORTABLE FLOATING PUMP PH-POSEIDON 2 BS

Configuration: engine Briggs & Stratton PXi 850
 Pump type centrifugal – aluminium casing
 Float polyethylene block with handles
 Runner aluminium casting

APPLICATION

The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc.

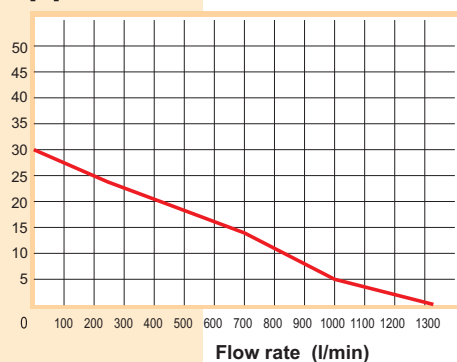
The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a stainless grid to prevent access of dirt and debris exceeding 10 mm in diameter. The delivery outlet of the PH – POSEIDON 2 BS is fitted with a Storz B75 (2,5") hose coupling.

The new float body is made of polyethylene by centrifugal injection as one block. The floater with its new design is equipped with a removable tank. The tank is connected with a fuel hose to the original fuel system. This modification extends the pumps run time for several hours without refilling. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



H [m]



The data was measured by the accredited testing laboratory TÚPO No. 1011-2

PH - POSEIDON 2 BS

• Max. flow	1185 l/min
• Total head	34 m
• Discharge connection	Storz B75 (2,5")
• Engine	Briggs a Stratton PXi 850
• Engine Power	4,4 kW/ 5,9 HP
• Fuel tank capacity	1,1 l
• Capacity additional fuel tank	3,8 l
• Fuel	unleaded petrol (BA 95)
• Float dimensions	710x610x375 mm
• Device dimensions	710x610x400 mm
• Dry weight (empty)	24,4 kg

Cat. No.: **vv 441**

PORTABLE FLOATING PUMP PH-POSEIDON 1000

Configuration: engine Honda GCVx 200
 Pump type centrifugal – aluminium casing
 Float polyethylene block with handles
 Runner cast iron casting

APPLICATION

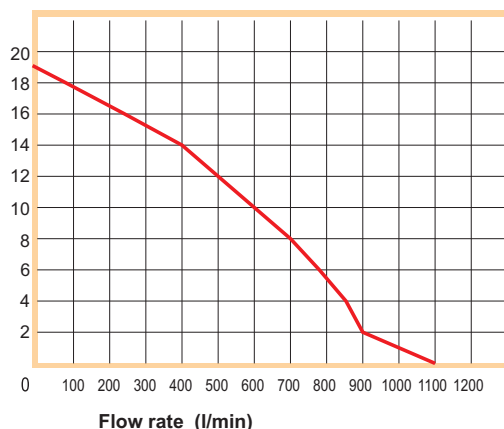
The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc.

The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a plastic grid to prevent access of dirt and debris exceeding 20 mm in diameter. The delivery outlet of the PH - POSEIDON 1000 is fitted with a C-52 (2") hose coupling. The float body is made of polyethylene by centrifugal injection as one block. The floater with its new design is equipped with a removable tank. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away. The design of the pump allows „dry“ run without damage.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



H [m]



PH - POSEIDON 1000

• Max. flow	1102 l/min
• Total head	18 m
• Discharge connection	Storz C 52 (2")
• Engine	Honda GCVx 200
• Engine Power	4,2 kW/ 5,6 HP
• Fuel tank capacity	0,9 l
• Capacity additional fuel tank	3,8 l
• Fuel	unleaded petrol (BA 95)
• Float dimensions	710x610x375 mm
• Device dimensions	710x610x400 mm
• Dry weight (empty)	24,5 kg

Cat. No.: **vv 444**

The data was measured by the accredited testing laboratory TÜPO No. 1011-2

PORTABLE FLOATING PUMP PH-POSEIDON 1200

Configuration: engine Honda GCVx 200
 Pump type centrifugal – aluminium casing
 Float polyethylene block with handles
 Runner cast iron casting

APPLICATION

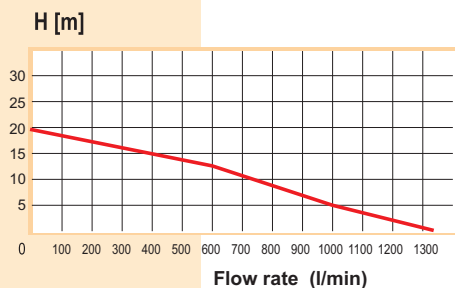
The device can be used by fire brigades to replenish fire engine tanks with water from outdoor natural water sources. It can also be used to pump out water from flooded areas and rooms and for other applications, e.g. agriculture, building sites, etc.

The pump casing of Al-alloy is bolted to the engine flange and the float. The bottom side of the casing is fitted with a plastic grid to prevent access of dirt and debris exceeding 20 mm in diameter. The delivery outlet of the PH-POSEIDON 1200 is fitted with a Storz B75 (2½") hose coupling. The float body is made of polyethylene by centrifugal injection as one block. The floater with its new design is equipped with a removable tank. The integrated handles make it easy to handle and carry the pump and can also be used to fix a rope to prevent the pump from floating away. The design of the pump allows „dry“ run without damage.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!



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The data was measured by the accredited testing laboratory TÜPO No. 1011-2

PH - POSEIDON 1200	
• Max. flow	1365 l/min
• Total head	17 m
• Discharge connection	Storz B75 (2,5")
• Engine	Honda GCVx 200
• Engine Power	4,2 kW/ 5,6 HP
• Fuel tank capacity	0,9 l
• Capacity additional fuel tank	3,8 l
• Fuel	unleaded petrol (BA 95)
• Float dimensions	710x610x375 mm
• Device dimensions	710x610x400 mm
• Dry weight (empty)	24,7 kg
Cat. No.:	vv 445

PORTABLE HIGH PRESSURE FLOATING PUMP GEYSER

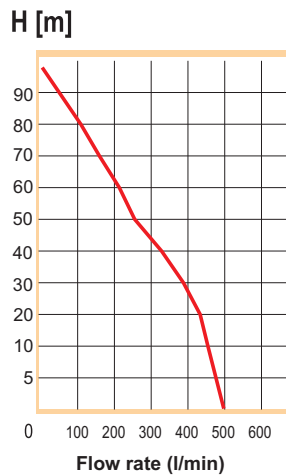
Configuration:

pump	centrifugal type-Al casting
float	Polyethylene block with handles
runner	AlMg5Si1Mn
suction	coverAlMg5Si1Mn

Application: The pump and the engine are in one unit, so the pump cannot be used independently. The engine shaft passes through the pump chamber via a ceramic seal, which prevents water from flowing around the shaft to the motor. The underside of the pump chamber is fitted with an aluminium cover. The bottom side of the block is fitted with a cover to prevent debris and particles over 5 mm in diameter. The delivery outlet is fitted with a Storz C52 (2") hose coupling.

The float body is made of polyethylene by centrifugal injection as one block. The design of the float features outstanding stability on the water surface. The two handles are used for carrying, handling and also for fastening the cord to protect against swimming. The engine of this pump is equipped with a handle also, which can be used to remove the unit from the floater and manipulate the pump. The 5 liter fuel tank is attached to the floater and connected to the engine's fuel pump. The 2-stroke engine with a volume of 124 cc and an output of 8 HP is equipped with a manual or electric starter.

Warning: The pump must not be run in enclosed areas as there is a danger of carbon oxide poisoning!!!.

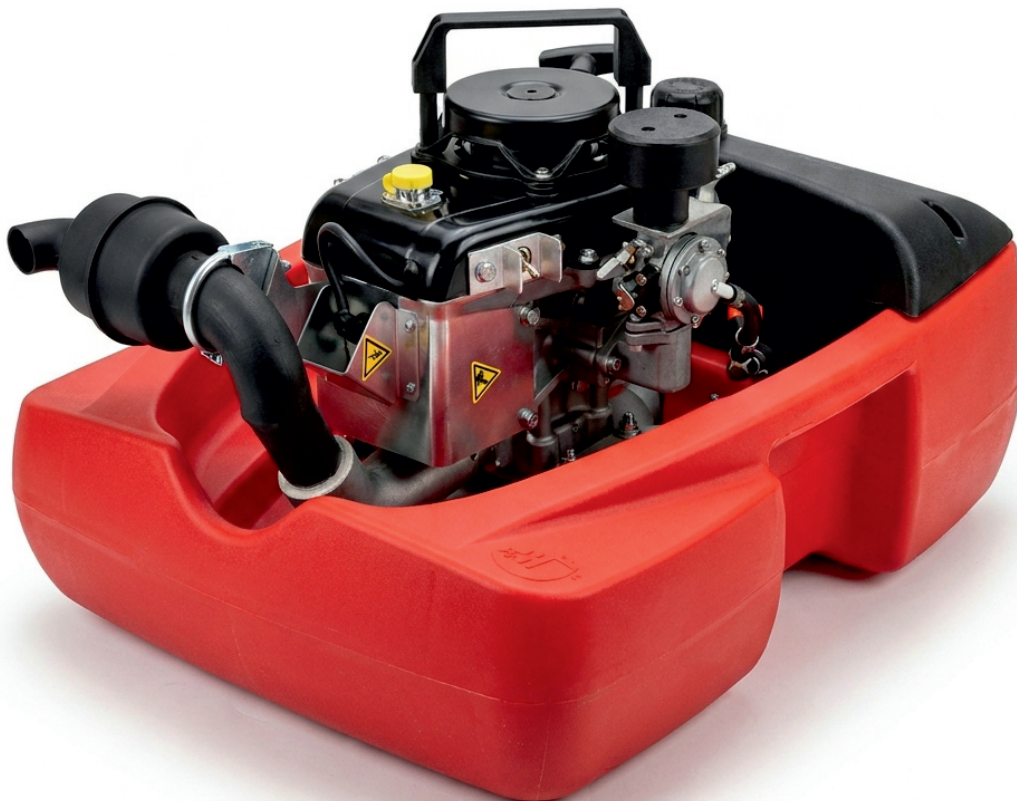


GEYSER

- Max. flow 480 l/min
- Total head 95 m
- Discharge connection Coupling Storz C52 (2")
- Engine Power 6.1 kW/8 HP
- Fuel tank capacity 5 l
- Fuel unleaded petrol (BA 95)
- Device dimensions 830x515x425 mm
- Dry weight (empty) 21,2 kg

Cat. No.: **vv 446**

The data was measured by the accredited testing laboratory TÚPO No. 1011-2



BATTERY-POWERED FAN PH-VP BAT 450

The compact, portable and easy-to-operate booster battery fan PH-VP bat 450 is intended for quick ventilation of smoky areas during fires using overpressure - positive pressure ventilation. Its use facilitates fire actions in structures with dense smoke reducing concentration of noxious and explosive gases. The booster fan is working on the principle of creating a positive pressure in structures in a mechanical manner using a rotor-turbine which produces a powerful and directed flow of air used for ventilation of the area. It is intended to fight smoke, gases and high temperatures. The device can also be used in enclosed spaces!

Power unit - Cramer 82 Li series battery engine with an output of 1.5 kW. The fan rotor is firmly connected to the motor as one unit, it is protected by a metal cover with a grid. The aluminum welded tubular frame, stably mounted on rubber feet. The device is equipped with a fixed handle, which can be used to carry the device and adjust the angle for the air flow. The fan with an output of 12,903 m³ / hour is equipped with a battery and a charger.



Impeller with 4 vanes

- Rated output: 12 903 m³/hod
- Engine: Cramer 82 Volt
- Battery: 8 Ah
- Engine power: 1,5 kW/1,95 HP
- Impeller: (positive pressure): 4 vanes, Ø 450 mm
- Max. air speed: 34,56 km/hr
- Turbine inclination angle: Adjustable 0-18°
- Device dimensions (LxWxH): 500x555x550 mm
- Weight with battery: 19,3 kg
- Weight without battery: 15,4 kg

Cat. No.: **vv 478**

The data were measured in the AMCA laboratory according to the AMCA 240 standard.

BOOSTER FANS PH-VP450 GX/GP

These compact, portable and easy-to-control booster fans PH-VP450/GP, PH-VP450/GP are intended for quick ventilation of smoky areas during fires using overpressure - positive pressure ventilation. Its use facilitates fire actions in structures with dense smoke reducing concentration of noxious and explosive gases.

The booster fans are working on the principle of creating a positive pressure in structures in a mechanical manner using a rotor-turbine which produces a powerful and directed flow of air used for ventilation of the area. It is intended to fight smoke, gases, high temperature and for drying of buildings.

WARNING: The device may not be used in enclosed spaces! Danger of carbon monoxide poisoning!



Technical specifications PH-VP450/GX

- Rated output: 23 945 m³/hod (AMCA 240)
- Total output: 45 600 m³/hod
- Engine: Honda GX 200
- Engine power: 4,1 kW/5,5 HP
- Fuel tank capacity: 3,1 l
- Fuel: Unleaded petrol (BA 95)
- Impeller: (positive pressure) 6 vanes, Ø 450 mm
- Max. air speed: 100 km/hr
- Turbine inclination angle: Adjustable 0-18°
- Device dimensions (LxWxH): 490x555x600 mm
- Dry weight (empty): 33 kg
- Total weight: 35,6 kg

Cat. No.: **vv 477/GX**

Technical specifications PH-VP450/GP

- Rated output: 16 700 m³/hod
- Total output: 45 600 m³/hod
- Engine: Honda GP 200
- Engine power: 4,1 kW/5,5 HP
- Fuel tank capacity: 3,1 l
- Fuel: Unleaded petrol (BA 95)
- Impeller: (positive pressure) 6 vanes, Ø 450 mm
- Max. air speed: 100 km/hr
- Turbine inclination angle: Adjustable 0-18°
- Device dimensions (LxWxH): 490x555x600 mm
- Dry weight (empty): 33 kg
- Total weight: 35,6 kg

Cat. No.: **vv 477/GP**

The data was measured by the AMCA laboratory according to the AMCA 240 standard.

BOOSTER FAN PH-VP 600

The compact, portable and easy-to-control booster fan PH-VP600 is intended for quick ventilation of smoky areas during fires using overpressure - positive pressure ventilation. Its use facilitates fire actions in structures with dense smoke reducing concentration of noxious and explosive gases.

The booster fan is working on the principle of creating a positive pressure in structures in a mechanical manner using a rotor-turbine which produces a powerful and directed flow of air used for ventilation of the area. It is intended to fight smoke, gases, high temperature and for drying of buildings.

WARNING: The device may not be used in enclosed spaces! Danger of carbon monoxide poisoning!



PH-VP600

• Rated output	23 200 m ³ /hr
• Total output	55 000 m ³ /hr
• Engine	Honda GX 270
• Engine power	6.3 kW / 8.4 HP
• Fuel tank capacity	5.4 l
• Fuel	unleaded petrol (BA 95)
• Impeller (positive pressure):	6 vanes, Ø520 mm
• Max. air speed	110 km/hour
• Turbine inclination angle	Adjustable 0-18°
• Device dimensions (LxWxH)	460x630x665 mm
• Dry weight (empty)	44 kg

Cat. No.: **vv 471**

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HONDA



FOAM ADAPTER FOR BOOSTER FAN PH-VP450

This device for producing foam works by forming a water / surfactant (foam) mixture, with compressed air forced into the mix. The adapter is mounted on a (PPV) fan PH-VP450 and foaming occurs through a special gridded net. The foam solution is dispensed using a conventional external admixer (flow 200 l/min). (Not supplied)

The portable foam adapter consists of a stainless steel body provided with rubber clamps for attachment to the PPV fan PH-VP450. The foam concentrate is transferred through a fixed distribution pipe equipped with 8 special water-jet nozzles. This integrated distribution pipe is intended to connect an external supply line, which is provided with a C52 coupling. The foaming net is attached to the adapter-housing with a stainless steel flange. Furthermore the foam adaptor is provided with a loop strap for fastening a PVC-duct in 4m. (2 pieces included)

Specifications PH-VP 450:

Weight:	7 kg
Length:	230 mm
Width:	630 mm
Height:	530 mm
Mixture flow rate:	180 - 260 l/min
Pressure of the mixture at the inlet:	0,4 - 1 MPa
Cat. No.:	vv 476



FRAMED AIR-DUCT PH-VH 450 *and* PH-VH 600

The PH-VH 450 is a flexible 5 layer (45 microns) aluminium laminated duct with a steel spiral inserted between the layers of the duct. This discharge and extraction accordion duct fitted with steel flanges at both ends and mounted in a tubular frame is especially designed for the booster fans PH-VP450 GX and the PH-VP450 GP and heat resistant up to +140°C. The air-duct PH-VH 600 is especially designed for the booster fan PH-VP600.

How to attach the duct to the ventilator:

Place the duct against the fan in the transport position (FIG 1). Release the connecting flange from the transport frame by detaching the hooks. Lift the connection flange (FIG 2). Fix the connection flange to the cover of the fan by using the rubber clamps (FIG 3-4). Place the frame with the other end of the duct into the desired position / location.

Specifications PH-VH 450:

- Max. length of duct 4 850 mm
- Duct diameter 500 mm
- Compact dimensions 610x610x580 mm
- Weight 9.2 kg

Cat. Number: **vv 472**

Specifications PH-VH 600:

- Max. length of duct 4 850 mm
- Duct diameter 500 mm
- Compact dimensions 610x610x580 mm
- Weight 9.4 kg

Cat. Number: **vv 473**

FIG 1 – transport position



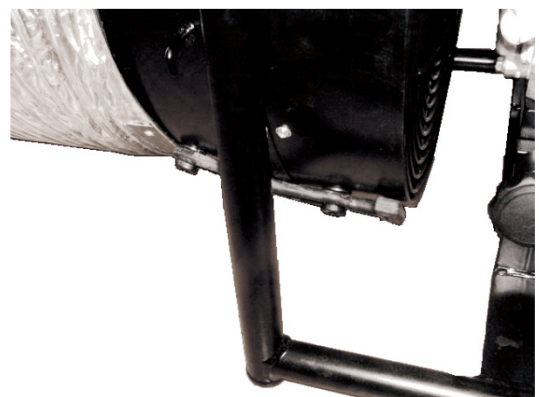
FIG 2 – Detaching of the connecting flange



FIG 3 – Attaching to the Booster fan



FIG 4 – Fixed (ready for use)



QUALITY POLICY IN PAVLIŠ A HARTMANN

As a manufacturer of fire fighting equipment, hoses and fire hydrant systems, it is our goal to satisfy the requirements of our customers regarding not only the quality of the product but also our partner-like approach and reliability based on our management system. We consider implementation of a functional and effective quality system to be a natural aspect of a modern company management. Our commitment to implementation and constant improvement of the quality management system is based on the philosophy:

„HIGH QUALITY AND RELIABILITY OF OUR PRODUCTS WILL BRING BACK OUR CUSTOMERS“.

1. The customer's satisfaction is a priority of all our staff.
2. The quality of fire-fighting equipment requires systemic management of processes and constant improvement of production and instrumentation technology. We want innovations of products and equipment that will strengthen our position in the market.
3. A satisfied employee influences the quality of production and internal communication. We want to achieve maximum involvement of the staff in our business success.
4. Our aim is to develop partnerships with our suppliers on the win-win principle.
5. Our intention is to implement the quality system, so that it meets the customers' requirements according to the standard CSN EN ISO 9001:2015 and the requirements of a supplier for the Czech Army.



The manufacturer reserves the right to modify and improve the products illustrated and described in this catalogue as long as such modifications do not affect the function of the equipment, without prior notice and without accepting any liabilities.



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